



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF : Michael A. Centanni et al.
FOR : SENSOR FOR DETERMINING
CONCENTRATION OF FLUID STERILANT

SERIAL NO. : 10/663,593
FILED : September 16, 2003
EXAMINER : Unknown
ART UNIT : Unknown
ATTORNEY DOCKET NO. : ST8012US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement has been filed pursuant to the waiver issued by the U.S. Patent and Trademark Office on July 11, 2003, wherein the Office waived the requirement under 37 CFR 1.98(a)(2)(i) for submitting copies of each cited U.S. patent and each U.S. patent application publication, for all U.S. national patent applications *filed after June 30, 2003* and for all international applications that have *entered the national stage* under 35 USC § 371 *after June 30, 2003*.

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached form PTO-1449. The required copy of each document is enclosed *except for* documents previously cited by or submitted to the Office in a prior application(s) relied upon for an earlier filing date under 35 U.S.C. 120, said prior application(s) identified below:

Serial No.

Filing Date

2. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made.

3. Pursuant to 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed as an admission that the information cited in this Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).

4. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

- ☐ Copy of each English language version of a search report by a foreign patent office in a counterpart foreign application, indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
- ☐ Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents."
- ☐ English-language abstract.

☒ 5. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed:

- ☐ concurrently with the filing of the national application; or
- ☒ within 3 months of the filing date of a national application; or
- ☐ within 3 months of the date of the entry of the national stage as set forth in 37 CFR 1.491 in an international application; or
- ☐ before the mailing date of a first Office Action on the merits.

{NOTE: Statements filed within the foregoing periods require neither a fee nor a Certification}

☐ 6. Pursuant to 37 C.F.R. 1.97(c) this Statement is being filed *after* the mailing date of a first Office Action on the merits but *before* the mailing date of either: a Final Office Action under 37 C.F.R. 1.113 or a Notice of Allowance under 37 C.F.R. 1.311, whichever occurs first. Accordingly, this Statement is accompanied by:

- ☐ Certification as specified in 37 C.F.R. 1.97(e); OR
- ☐ The submission fee set forth in 37 C.F.R. 1.17(p). Enclosed is Form PTO-2038 authorizing the amount of \$180 to be charged to our credit card to cover the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement.

☐ 7. Pursuant to 37 C.F.R. 1.97(d) this Statement is being filed *after* the period specified in 37 C.F.R. 1.97(c), but *before or concurrent with* payment of the Issue Fee. Accordingly, this Statement is accompanied by:

- A. Certification as specified in 37 C.F.R. 1.97(e); AND
- B. The submission fee set forth in 37 C.F.R. 1.17(p). Enclosed is Form PTO-2038 authorizing the amount of \$180 to be charged to our credit card to cover the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement.

- () 8. Statement filed *after* payment of Issue Fee, but *before* patent grant:

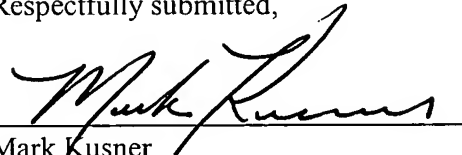
This Statement is being filed *after* payment of the Issue Fee, but *before* grant of the patent; accordingly it is understood that this Statement will *not* be considered. However, it is respectfully requested that this Information Disclosure Statement be placed in the application file. {NOTE: no fees or certification required}

- () 9. CERTIFICATION under 37 C.F.R. 1.97 (e) (if applicable):

- () The undersigned hereby certifies that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Information Disclosure Statement, OR
- () The undersigned hereby certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Information Disclosure Statement.

The Commissioner is hereby authorized to charge any additional fees required for consideration of this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 50-0537, identifying our Docket No. **ST8012US**.

Respectfully submitted,



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Date: December 15, 2003

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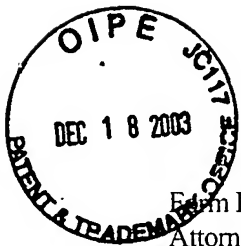
CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: December 15, 2003



Christine Goellner



Exam PTO-1449

Attorney Docket: ST8012US

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U.S. Patent Documents

Examiner Initials	Document Number	Date	Name	Class

Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials	Document

_____ Steven J. Lasky, Howard R. Meyer & Daniel A. Buttry, Department of Chemistry, "Quartz Microbalance Studies of Solvent and Ion Transport in Thin Polymer Films in Sensor Applications of the QCH," *Technical Digest* 1990, pages 1-4.

_____ Sylvain Lazare and Vincent Granier, "Excimer Laser Light Induced Ablation and Reactions at Polymer Surfaces as Measured with a Quartz-Crystal Microbalance," November 16, 1987, *J. Appl. Phys* 63 (6), 15 March 1988, 1988 *American Institute of Physics*, pages 2110-2115.

_____ Stanley Bruckenstein, C. Paul Wilde, Michael Shay and A. Robert Hillman, "Experimental Observations on Transport Phenomena Accompanying Redox Switching in Polythionine Films Immersed in Strong Acid Solutions," 1990 *American Chemical Society*, pages 787-793.

_____ Robert R. McCaffrey, Stanley Bruckenstein and Paras N. Prasad, "Novel Application of the Quartz Crystal Microbalance to Study Langmuir-Blodgett Films," 1986 *American Chemical Society*, pages 228-229.

Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc.)-continued

Examiner

Initials

Document

_____ J.A. Moore and Sang Youl Kim, "Diffusion of Small Molecules in Radiation Damaged PMMA Thin Films," 2002 Engineering Info. Inc., pages 383-386.

_____ Rade Ognjanovic, C.-Y. Hui, E.J. Kramer, "The Study of Polystyrene Surface Swelling by Quartz Crystal Microbalance and Rutherford Backscattering Techniques," *Journal of Materials Science* 25 (1990), 1990 Chapman and Hall Ltd., pages 514-518.

_____ H.G. Tompkins, "Use of Surface and Thin Film Analysis Techniques to Study Metal-Organic and Metal-Polymer Interaction: A Review," *Thin Solid Films*, 119 (1984), pages 337-348.

_____ Sylvain Lazare, Jean Claude Soullignac and Pascal Fragnaud, "Direct and Accurate Measurement of Etch Rate of Polymer Films under Far-UV Irradiation," *Appl. Phys. Lett.* 50 (10), 9 March 1987, 1987 American Institute of Physics, pages 624-625.

_____ Aljosa Vrhunec, Andreja Kolenc, Dusan Teslic, Iztok Livk and Ciril Pohar, "Crystal Size Distribution in Batch Sodium Perborate Precipitation," *Acta Chim. Slov.* 1999, 46(4), pages 543-554.

Examiner:

Date Considered:

****Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.